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## A hardware/software co-simulation environment for micro design with HDL simulator and OS interface

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This paper appears in: **Design Automation Conference 1997. Proceedings of the ASP-South Pacific**

Publication Date: 28-31 Jan. 1997

On page(s): 377 - 382

Number of Pages: xxxii+691

Meeting Date: 01/28/1997 - 01/31/1997

Location: Chiba

INSPEC Accession Number: 5552657

Digital Object Identifier: 10.1109/ASPDAC.1997.600243

Posted online: 2002-08-06 21:32:51.0

### Abstract

Proposes a hardware/software co-simulation environment using an RTL (register transfer a software language interface. The proposed simulation environment introduces the "oper. interface" (OSIF), which invokes system calls in the OS on the simulation platform to exec software. The OSIF consists of data adaption facility and function correspondence management. cooperate with the OS of the simulation platform. We show the results of experiments with compatible processor model. This environment verified our processor model with SPEC b1 require various OS services. For example, with the Lisp interpreter program li, our detailed core part of R3000 was simulated only within 20 hours on a 109 MIPS workstation

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